



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME

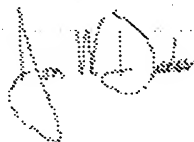
UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office

December 15, 2004

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OFFICE OF THOSE PAPERS OF THE BELOW IDENTIFIED PATENT
APPLICATION THAT MET THE REQUIREMENTS TO BE GRANTED A
FILING DATE.

APPLICATION NUMBER: 10/922,484
FILING DATE: August 20, 2004
RELATED PCT APPLICATION NUMBER: PCT/US04/36035

Certified by



Jon W Dudas

Acting Under Secretary of Commerce
for Intellectual Property
and Acting Director of the U.S.
Patent and Trademark Office



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15866 U.S. PTO

PTO/SB/05 (01-04)

Approved for use through 07/31/2008. OMB 0651-0032

U.S. Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 C.F.R. 1.53(b))

Attorney Docket No.	20712-0124
First Inventor	FREIRE
Title	ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES
Express Mail Label No.	ER 659183225 US

19587
10/9/2004
U.S. PTO



082004

APPLICATION ELEMENTS	ADDRESS TO:
See MPEP chapter 600 concerning utility patent application contents.	Mail Stop Patent Application Commissioner for Patents P.O. Box 1450 Alexandria VA 22313-1450
<div>1. <input checked="" type="checkbox"/> Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original and a duplicate for fee processing)</div> <div>2. <input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27.</div> <div>3. <input checked="" type="checkbox"/> Specification [Total Pages 5] (preferred arrangement set forth below)<ul style="list-style-type: none">- Descriptive title of the invention- Cross Reference to Related Applications- Statement Regarding Fed sponsored R & D- Reference to sequence listing, a table, or a computer program listing appendix- Background of the invention- Brief Summary of the invention- Brief Description of the Drawings (if filed)- Detailed Description- Claim(s)- Abstract of the Disclosure</div> <div>4. <input checked="" type="checkbox"/> Drawing(s) (35 U.S.C. 113) [Total Sheets 5]</div> <div>5. Oath or Declaration [Total Sheets 1]<ul style="list-style-type: none">a. <input type="checkbox"/> Newly executed (original or copy)b. <input type="checkbox"/> Copy from a prior application (37 CFR 1.63 (d)) (for a continuation/divisional with Box 18 completed)i. <input type="checkbox"/> DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).</div> <div>6. <input checked="" type="checkbox"/> Application Data Sheet. See 37 CFR 1.76</div> <div>7. <input type="checkbox"/> CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)</div> <div>8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)<ul style="list-style-type: none">a. <input type="checkbox"/> Computer Readable Form (CRF)b. Specification Sequence Listing on:<ul style="list-style-type: none">i. <input type="checkbox"/> CD-ROM or CD-R (2 copies); orii. <input type="checkbox"/> Paperc. <input type="checkbox"/> Statements verifying identity of above copies</div>	
ACCOMPANYING APPLICATIONS PARTS	
9. <input type="checkbox"/> Assignment Papers (cover sheet & document(s))	
10. <input type="checkbox"/> 37 C.F.R. 3.73(b) Statement of Power of Attorney (when there is an assignee)	
11. <input type="checkbox"/> English Translation Document (if applicable)	
12. <input type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input type="checkbox"/> Copies of IDS Citations	
13. <input type="checkbox"/> Preliminary Amendment	
14. <input checked="" type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)	
15. <input checked="" type="checkbox"/> Certified Copy of Priority Document(s) - Copy (if foreign priority is claimed)	
16. <input type="checkbox"/> Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent.	
17. <input checked="" type="checkbox"/> Other: Certificate of Express Mailing	

18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No: ____ / ____

Prior application information: Examiner: ____ Art Unit: ____

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

19. CORRESPONDENCE ADDRESS			
<input checked="" type="checkbox"/> Customer Number	26587	OR <input type="checkbox"/> Correspondence address below	
Name			
Address			
City	State	Zip Code	
Country	Telephone	Fax	
Name (Print/Type)	Brian T. Sattizahn	Registration No. (Attorney/Agent)	46,401
Signature			Date August 20, 2004

This collection of information is required by 37 CFR 1.53(b). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 770

Complete if Known

Application Number N/A
Filing Date August 20, 2004
First Named Inventor FREIRE
Examiner Name N/A
Art Unit N/A
Attorney Docket No. 20712-0124

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number

50-1059

Deposit
Account
Name

McNees Wallace & Nurick LLC

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☐ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1001	770	2001	385	Utility filing fee	770
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1)

(\$ 770)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims		Extra Claims		Fee from below		Fee Paid	
2		-20 **		0		0	
Independent Claims		1		-3 **		0	
Multiple Dependent						0	

Large Entity		Small Entity		Fee Description
Fee Code	Fee (\$)	Fee Code	Fee (\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	** Reissue independent claims over original patent
1205	18	2205	9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2)

(\$ 0)

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity		Small Entity		Fee Description	Fee Paid
Fee Code	Fee (\$)	Fee Code	Fee (\$)		
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17 (q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR § 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR § 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

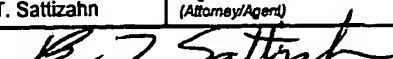
Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$ 0)

SUBMITTED BY

Name (Print/Type)	Brian T. Sattizahn	Registration No. (Attorney/Agent)	46,401	Telephone	(717) 237-5258
Signature				Date	August 20, 2004

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Certificate of Express Mailing under 37 CFR 1.10

I hereby certify that the following documents are being deposited with the United States Postal Service Express Mail Post Office to Addressee service under 37 C.F.R. 1.10 on the date indicated below, Express Mail Label Number ER 659183225, dated August 20, 2004, and addressed to:

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

on August 20, 2004
Date


Signature

Patricia L. Ballantyne

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

1. Return Acknowledgment Postcard
2. Utility Patent Application Cover Sheet
3. Fee Transmittal Form (in duplicate)
4. Patent Application - (5 pages)
5. Drawings - (5 sheets)
6. Unexecuted Declaration (1 page)
7. Application Data Sheet
8. Copy of Certified Copy of Originally Filed Brazilian Application

Attorney Docket No. : 20712-0124

ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES

The present utility model application pertains to an arrangement used in angle pieces and structural profiles, and specifically in angle pieces and structural profiles for the assembly of a cabinet of hexahedral format with rounded edges by a system of joining, which is developed as a function of its use in order to construct a cabinet for an air conditioner, and the angle pieces and structural profiles for the assembly of the structure of cabinets or multiple-use boxes of hexahedral format are closed by joints, through a closing profile used in the plates or panels, and being integrated with caps of insulation and external and internal finishing in the desired color, with the advantage of not using permanent fixation elements and of enabling the enclosure of the structures with smooth sheets configured in relief, or arranged with supports and means of containment or fixation of the equipment or item being enclosed, becoming an integral part of same.

Angle pieces and structural profiles of various formats are known, which are generally used in fixed and finished structures in the form of windows, doors, and other structures, to be supplemented with plates of plastic, glass, or metal, and providing the structural anchorage, so that these profiles can be made of light materials such as aluminum, plastic, or derivatives thereof, although it is also known that the arrangement of the existing profiles, secured in lattice shape, provides structural strength.

In the patent herein requested, the angle pieces and the structural profiles have been arranged to provide strength and ease of assembly and closure of the structure of cabinets, multiple-use boxes, and the like, by means of joints which bear the load and vibrations of an air conditioner, independently of its caps of insulation and external and internal finish, thus qualifying them for the assembly of cabinets and other products structured in hexahedral format with rounded edges, in order to be used for any desired purposes.

For better comprehension of the present patent application for utility model, refer to the enclosed drawings, in which Fig. 1 shows a structure in perspective view; Fig. 2 shows the assembly and enclosure of a cabinet box in perspective and exploded view, and Fig. 3 shows an angle piece in upper and lower perspective, its lateral view, and in section AA; Fig. 4 shows a central angle piece in upper and lower perspectives, its lateral and frontal views and in cross section AA; Fig. 5 shows the structural profile in perspective, front view and details; Fig. 6 shows the central structural profile in perspective, front view and details; Fig. 7 shows the cap of the angle piece in upper and lower perspectives, the lateral view, and the sections AA and BB; and Fig. 8 shows the cap of the central angle piece in upper and lower perspectives, the lateral view, and section AA; Fig. 9 shows the cap of the structural profile in upper and lower perspectives, and in front view, Fig. 10 shows the insulating cap of the central structural profile in perspectives and in front view; and Fig. 11 shows the profile for closing the panels in perspective and in front view.

The present Patent for Utility Model is composed for an "ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES"; consisting of an angle piece (1) provided with three male pins (2) integrated with flanges making up an inside corner (3) to receive by joining a structural profile (4), provided with a fitting cavity (5), lengthwise retention channels (6 and 7), and an inside corner flange (8), to be matched up with an internal flange (9) of a central angle piece (10) with two axial male pins (11) and two lateral male pins (12), in which is fitted a central structural profile (13) provided with a fitting cavity (14) and lengthwise retention channels (15 and 16), in order to make up structures of hexahedral format, with a cap for the angle piece (17), a cap for the central angle piece (18), a cap for the structural profile (19) and an insulating cap for a central structural profile (20), closed in by sheets or panels (21) applied in a finishing profile (22), making up cabinets and multiple-use boxes with rounded edges.

CLAIMS

1. An "ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES", characterized by an angle piece (1) with three male pins (2) and flanges making up an inside corner (3), for joining of a structural profile (4) via a fitting cavity (5), and provided with lengthwise retention channels (6 and 7) and an inside corner flange (8), matched up with an internal flange (9) of a central angle piece (10) with two axial male pins (11) for fitting of the structural profile (4) and two lateral male pins (12) for fitting of a central structural profile (13), via fitting cavities (14), and provided with retention channels (15 and 16).
2. The "ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES", in accordance with claim 1, further characterized in that the angle piece (1), the structural profile (4), the central angle piece (10) and the central structural profile (13), make up structures of hexahedral format by fitting together, with a cap for the angle piece (17), a cap for the central angle piece (18), a cap for the structural profile (19) and an insulating cap for the central structural profile (20), closed in by sheets or panels (21) applied in a finishing profile (22), to make up cabinets and multiple-use boxes with rounded edges.

ABSTRACT

An "ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES", comprised of an angle piece (1) for joining a structural profile (4), integrated with a central angle piece (10) and a central structural profile (13), in order to make up structures of hexahedral format with a cap for the angle piece (17), a cap for the central angle piece (18), a cap for the structural profile (19) and an insulating cap for the central structural profile (20) of internal and external finish, and closed in by sheets or panels (21) applied in a finishing profile (22), with the advantage of not using permanent fixation elements and of enabling the enclosure of the structures with smooth sheets or panels (21) configured in relief, or arranged with supports and means of containment or fixation of the equipment or item being enclosed, becoming an integral part of same.

FIGURE 1

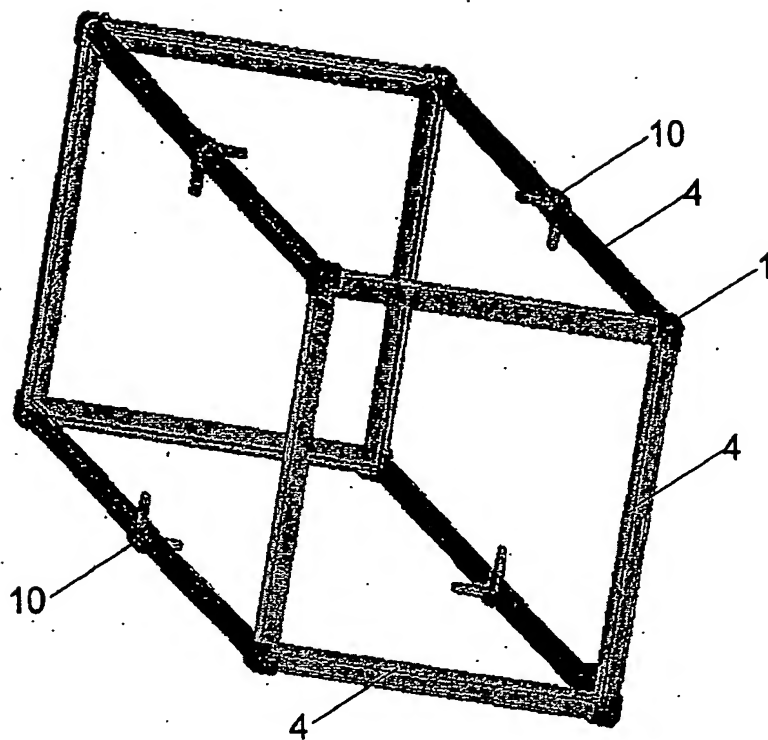


FIGURE 2

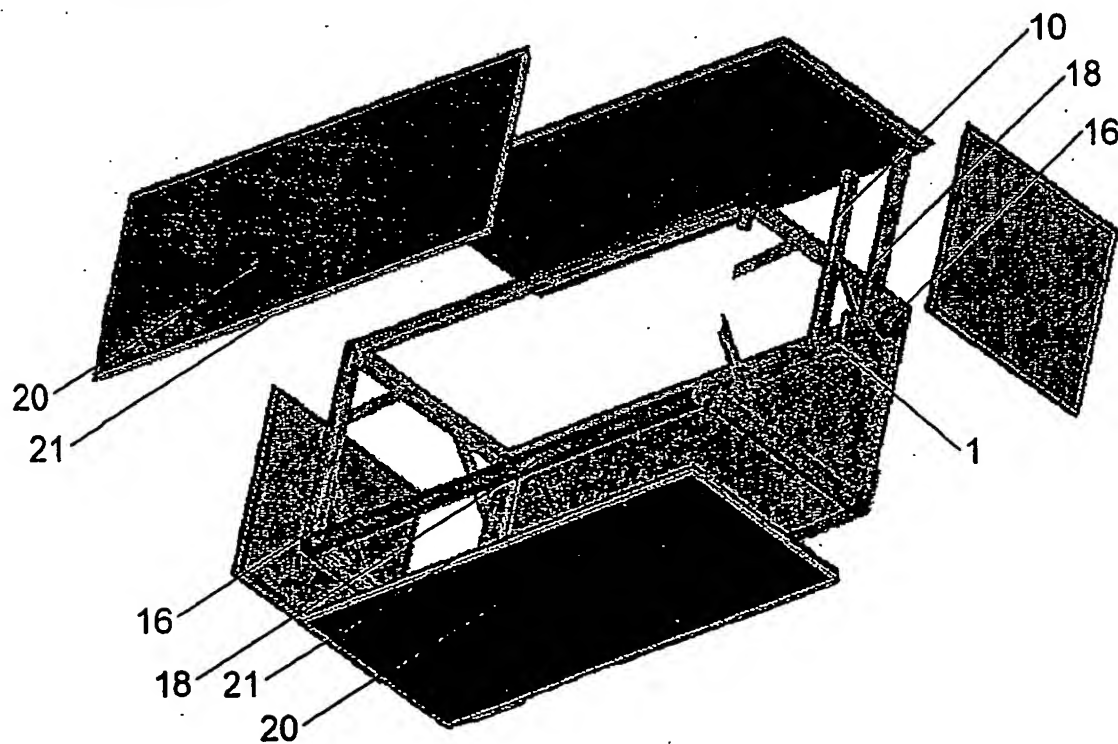


FIGURE 3

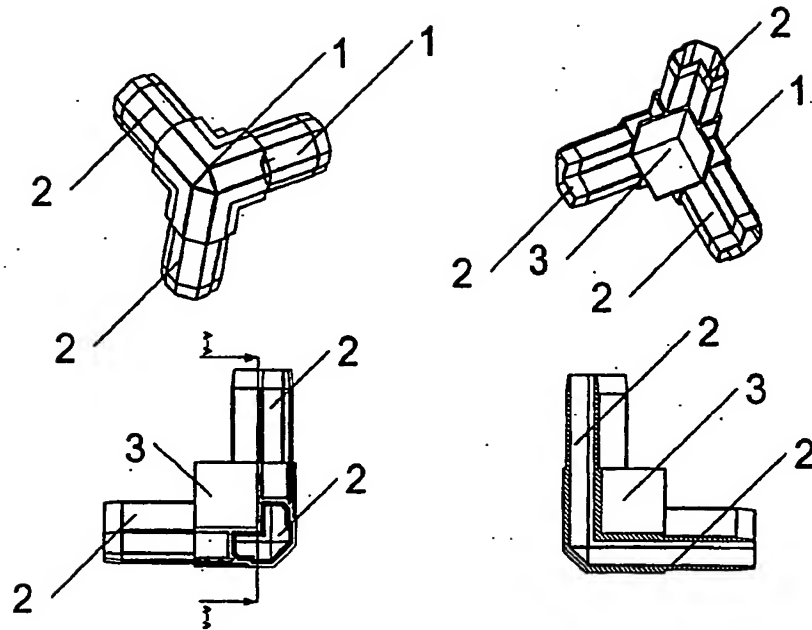


FIGURE 4

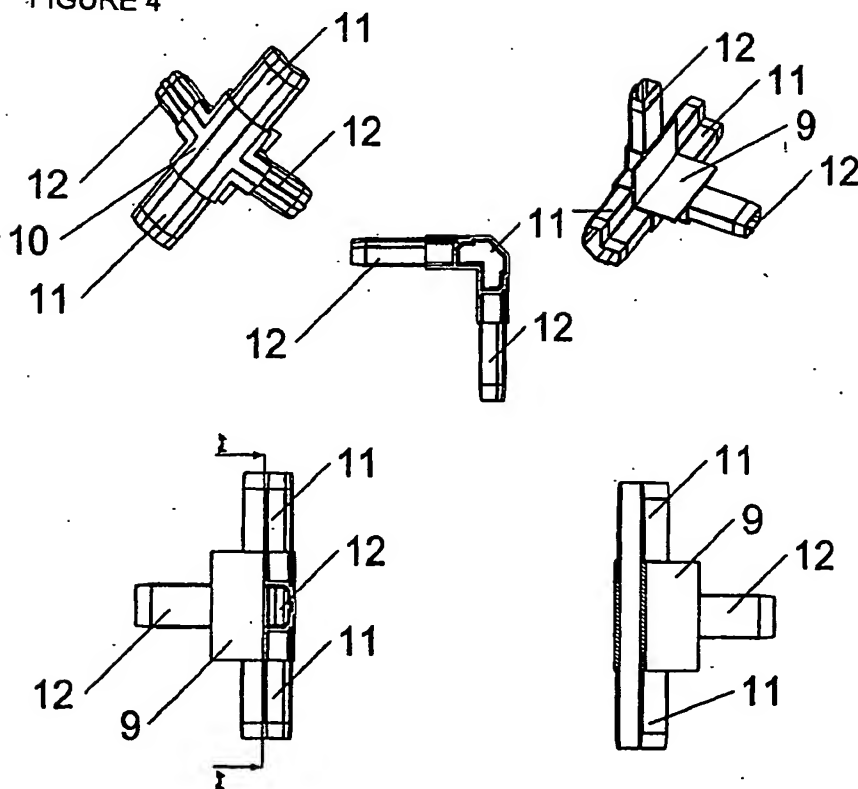


FIGURE 5

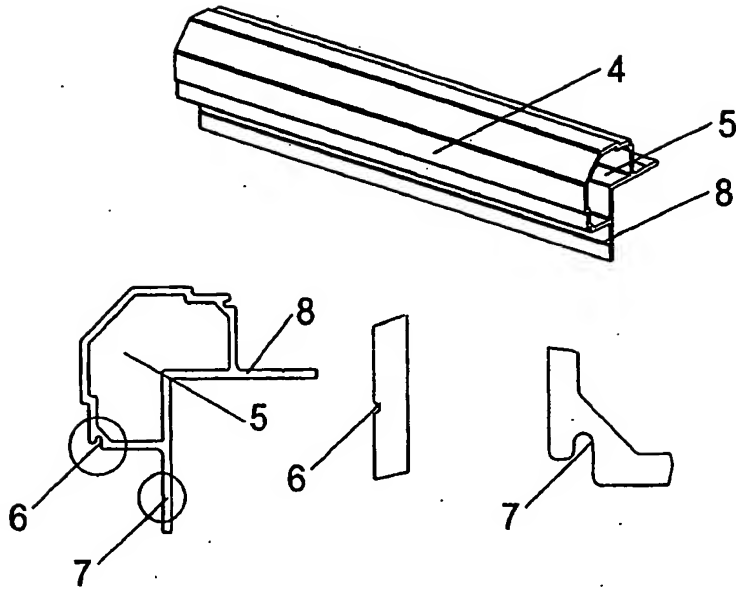


FIGURE 6

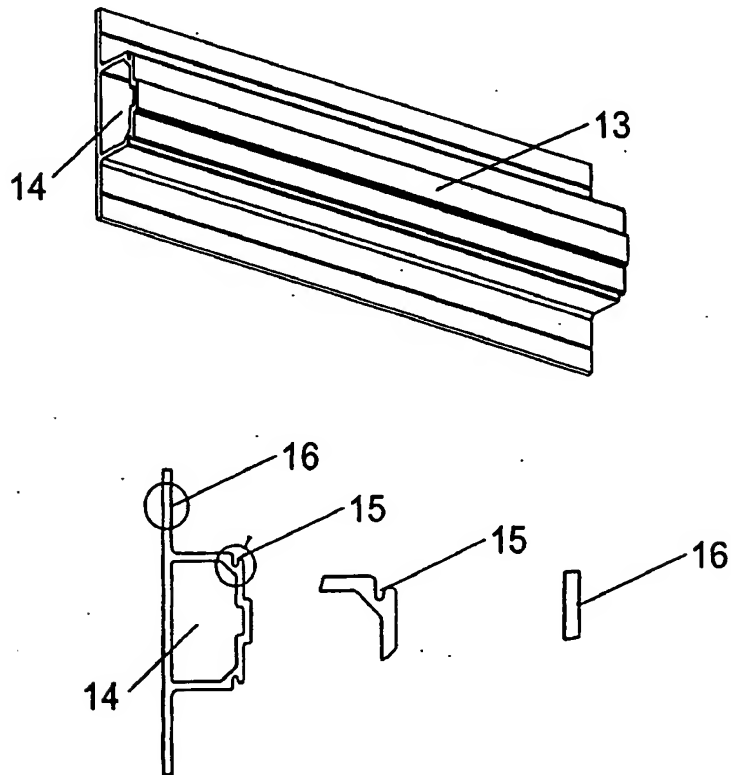


FIGURE 7

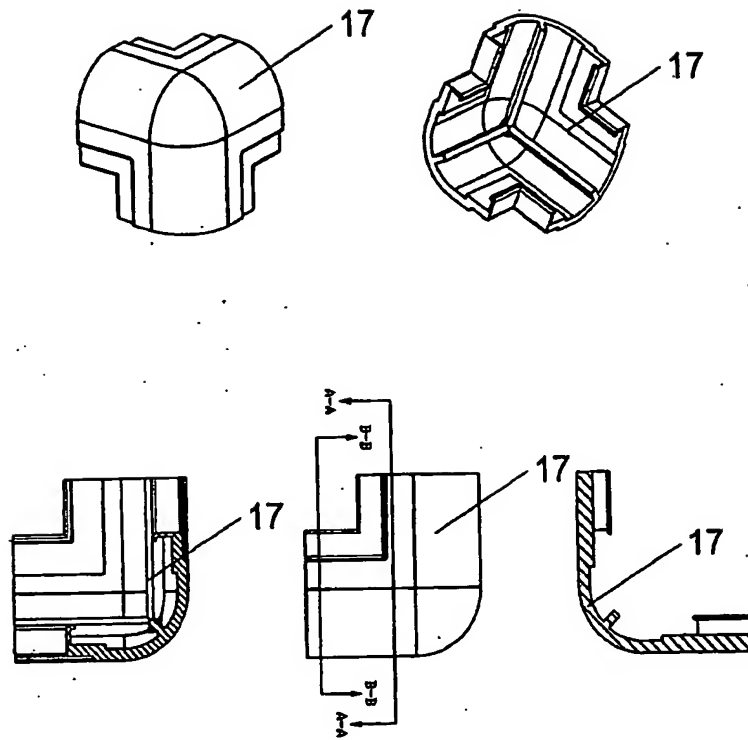


FIGURE 8

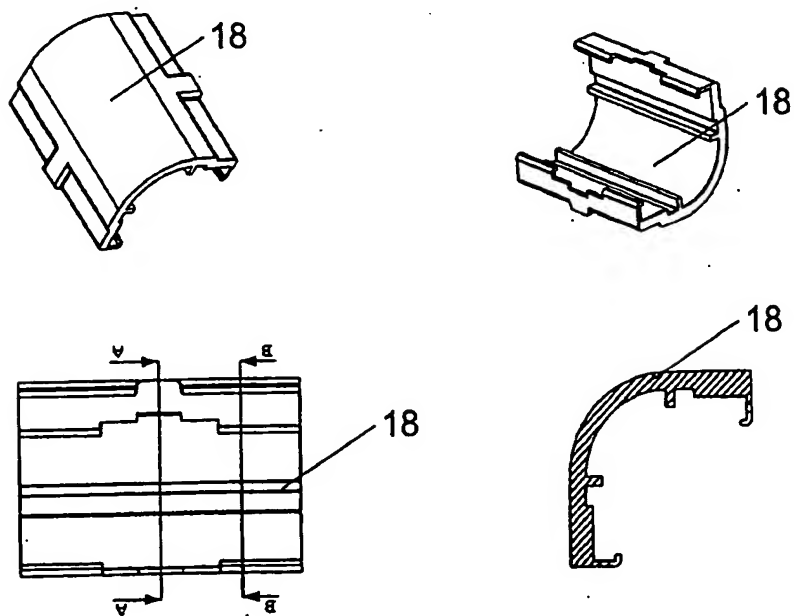


FIGURE 9

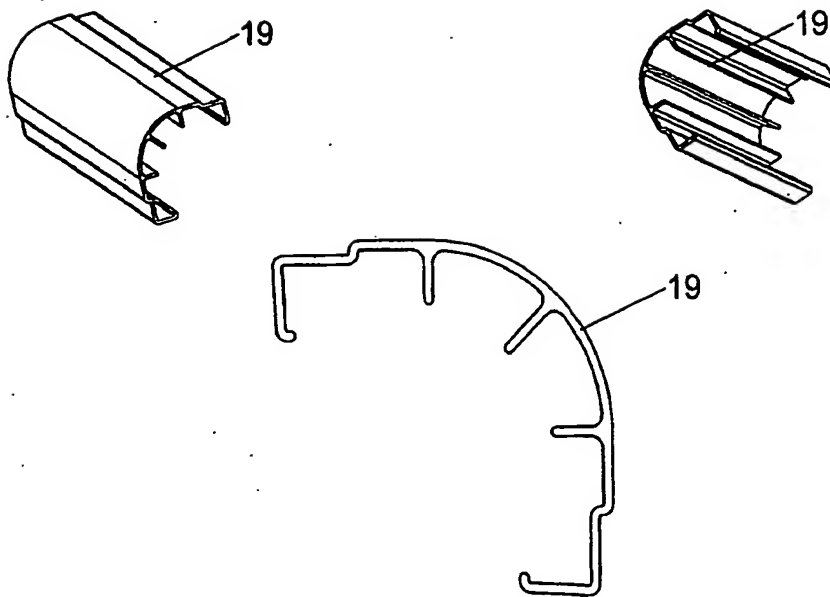


FIGURE 10

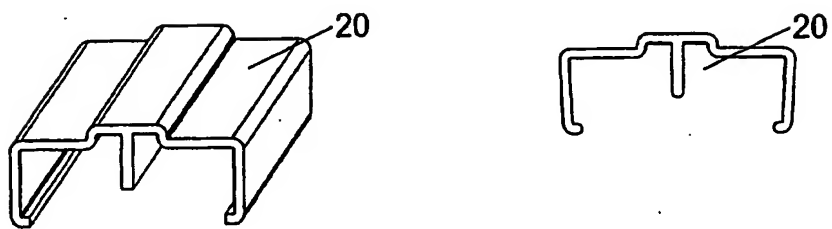
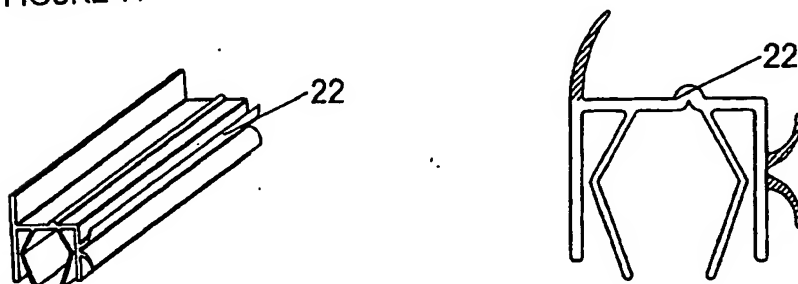


FIGURE 11



**DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN
APPLICATION DATA SHEET (37 CFR 1.76)**

Title of Invention

ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES

As the below named inventor(s), I/we declare that:

This declaration is directed to:

- ☐ The attached application, or
☒ Application No. _____, filed on August 20, 2004,
☐ as amended on _____ (if applicable);

I/we believe that I/we am/are the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought;

I/ we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment specifically referred to above;

I/we acknowledge the duty to disclose to the United States Patent and Trademark Office all information known to me/us to be material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the National or PCT International filing date of the continuation-in-part application.

All statements made herein of my/own knowledge are true, all statements made herein on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001, and may jeopardize the validity of the application or any patent issuing thereon.

FULL NAME OF INVENTOR(S)

Inventor one: Paulo Roberto Guichard FREIRE

Signature: _____ Citizen of: Brazil

Inventor two: _____

Signature: _____ Citizen of: _____

Inventor three: _____

Signature: _____ Citizen of: _____

Inventor four: _____

Signature: _____ Citizen of: _____

☐ Additional inventors or a legal representative are being named on _____ additional form(s) attached hereto.

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1 minute to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: FREIER :
: :
Application No.: N/A : Group Art Unit: N/A
: :
Filed: August 20, 2004 : Examiner: N/A
: :
For: **ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

APPLICATION DATA SHEET

1. Applicant Information

FIRST applicant: Paulo Roberto Guichard FREIRE
Mailing Address: N/A
Residence: N/A
Citizenship: Brazil

2. Correspondence Information

Correspondence for this application should be addressed to:

☐ Name: Brian T. Sattizahn, Esq.

Address: McNees Wallace & Nurick LLC
100 Pine Street
P.O. Box 1166
Harrisburg, Pennsylvania 17108-1166

☒ Customer No.: 26587

3. Application Information

Title of Invention: **ARRANGEMENT USED IN ANGLE PIECES AND STRUCTURAL PROFILES**

Docket number assigned to this application: **20712-0124**

Suggested Classification:

Class: _____ Subclass: _____

Technology Center: _____

Total number of drawing sheets: 5

- ☒ Suggested drawing figure for publication: 1
☐ Application is not being published.

Type of Application:

- ☒ Utility Application
☐ Design Application
☐ Provisional Application
☐ Reissue Application
☐ Plant Application

Genus: _____ Species: _____

Denomination: _____

- ☐ This Application discloses a significant part of the subject matter of an application which is under a secrecy order pursuant to §37 CFR 5.2.

4. Representative Information

The following have a power of attorney or authorization of agent in this Application

☐ Name of attorney (agent): _____

☒ Customer No.: **26587**

5. Domestic Priority Information

Domestic priority for this application is claimed as

☒ No domestic priority is claimed.

☐ 35 U.S.C. §119(e)

Application No.: _____

Filed: _____

Status: _____

Relationship: _____

☐ 35 U.S.C. §120

Application No.: _____

Filed: _____

Status: _____

Relationship: _____

U.S. Application Number	Date of Filing (day, month, year)	Status (patented, pending, abandoned)

☐ 35 U.S.C. §121

Application No.: _____

Filed: _____

Status: _____

Relationship: _____

☐ 35 U.S.C. §365(c)

Application No.: _____

Filed: _____

Status: _____

Relationship: _____

6. Foreign priority Information

☐ No foreign priority is claimed.

☒ Foreign priority is claimed for this application from:

Application No.: MU8302711-4

Filing Date: October 31, 2003

Country: : Brazil

☐ Foreign application(s) having a filing date before that of the above application for which priority is claimed.

Application No.: _____

Filing Date: _____

Country: : _____

7. Assignee Information

The assignee(s) of this application based on filed Assignment papers:

Name of assignee: _____

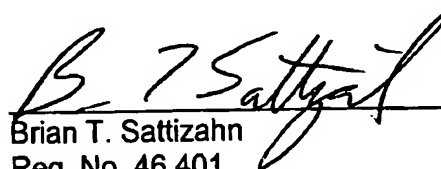
Address of assignee: _____

Extent of interest of assignee in application: _____

Dated: August 20, 2004

McNees Wallace & Nurick LLC

Phone: (717) 232-8000
Fax: (717) 237-5300


Brian T. Sattizahn
Reg. No. 46,401
100 Pine Street
P.O. Box 1166
Harrisburg, PA 17108-1166

Document made available under the Patent Cooperation Treaty (PCT)

International application number: PCT/US04/036035

International filing date: 29 October 2004 (29.10.2004)

Document type: Certified copy of priority document

Document details: Country/Office: US
Number: 10/922,484
Filing date: 20 August 2004 (20.08.2004)

Date of receipt at the International Bureau: 20 December 2004 (20.12.2004)

Remark: Priority document submitted or transmitted to the International Bureau in compliance with Rule 17.1(a) or (b)



World Intellectual Property Organization (WIPO) - Geneva, Switzerland
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